

In re Application of David E. Wenstrup
Application No. 10/693,754

AMENDMENTS TO THE CLAIMS

1-11. (Canceled)

12. (Original) A method of forming a composite material, comprising the steps of:
- blending low melt temperature fibers with high melt temperature fibers;
 - forming a batting layer web from the combined low melt temperature fibers and high melt temperature fibers;
 - depositing a cushion layer web of cushion fibers on the batting layer web;
 - needling the combination of the batting layer web and the cushion layer web;
 - applying a face textile on the cushion layer web with an adhesive therebetween;
 - heating the combination of the batting layer web, the cushion layer web, the adhesive, and the face textile to a temperature to accomplish thermal bonding.
13. (Original) The method according to claim 12, further including the step of pre-selecting the high melt temperature fibers, the low melt temperature fibers, the cushion fibers, the adhesive, and the face textile such that all are formed of material from the same chemical nature.
14. (Original) The method according to claim 12, wherein the step of blending includes proportioning the blend to have between about 50% and about 85% of the low melt temperature fibers per total weight of the combined blend of the low melt temperature fibers and the high melt temperature fibers.

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15. (Original) The method according to claim 12, wherein the step of blending includes proportioning the combined blend to have about 70% of the low melt temperature fibers per total weight of the combined blend of the low melt temperature fibers and the high melt temperature fibers.

16. (Original) The method according to claim 12, wherein the step of blending includes proportioning the blend to have between about 15% and about 50% of the high melt temperature fibers per total weight of the combined blend of low melt temperature fibers and high melt temperature fibers.

17. (Original) The method according to claim 12, wherein the step of blending includes proportioning the combined blend to have about 30% of the high melt temperature fibers per total weight of the combined blend of the low melt temperature fibers and the high melt temperature fibers.

18. (Original) The method according to claim 12, wherein the step of forming the batting layer web includes forming batting layer web with the low melt temperature fibers, and the high melt temperature fibers laid in the cross direction.

19. (Original) The method according to claim 18, wherein the step of forming the cushion layer web includes forming cushion layer web with the cushion fibers laid in the machine direction.

20. (Original) The method according to claim 12, wherein the step of forming the cushion layer web includes forming cushion layer web with the cushion fibers laid in the machine direction.

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21. (Original) The method according to claim 12, wherein the step of depositing the cushion layer web includes laying the cushion fibers directly on the batting layer web.

22. (Original) The method according to claim 12, wherein the step of depositing the cushion layer web includes preforming the cushion layer web and applying the preformed cushion layer web onto the batting layer web.

23. (Original) The method according to claim 12, further including the step of rolling the thermally bonded combination of the batting layer web, the cushion layer web, the adhesive, and the face textile into a roll.

24. (Original) A method according to claim 23, further comprising the steps of cutting a segment of the composite material from the roll, heating the segment of composite material to a molding temperature, and molding the sheet of composite material into a component part.

25. (Original) The method according to claim 12, further including the step of cutting the thermally bonded combination of the batting layer web, the cushion layer web, the adhesive, and the face textile into at least one sheet.

26. (Original) A method according to claim 25, further comprising the steps of heating the sheet of composite material to a molding temperature, and molding the sheet of composite material into a component part.